

In the Claims:

Please amend claims 1, 3-19, 21-35, and 38-45, as indicated below.

1. (Currently amended) A computer-readable storage medium storing program instructions computer-executable to perform operations comprising:

encoding ~~[[an]]~~ a first association ~~[[of]]~~ between a single computer resource and ~~[[a]]~~ one or more resource management ~~policy~~ policies for the single computer resource;

encoding a second association between the single computer resource and one or more resource management policies for the single computer resource, wherein at least one of the one or more resource management policies associated with the single resource by the second encoding is different from the one or more policies associated with the single resource by the first encoding;

binding one or more encapsulated computations that are consumers of the single resource to ~~[[the]]~~ a single one of the first and second encodings; and

executing the one or more encapsulated computations in accordance with the one or more resource management ~~policy~~ policies for the single computer resource that are associated with the single computer resource by the single encoding that is bound to the one or more encapsulated computations.

2. (Previously presented) The computer-readable storage medium of claim 1, wherein the encapsulated computations correspond to a collaborative application.

3. (Currently amended) The computer-readable storage medium of claim 1, wherein an encapsulated computation ~~has a~~ does not share state ~~independent of~~ with other encapsulated computations.

4. (Currently amended) The computer-readable storage medium of claim 1, wherein said encoding the first association includes instantiating a first resource domain structure, wherein the first resource domain structure includes data indicating ~~indicates a~~ the single computer resource.

5. (Currently amended) The computer-readable storage medium of claim 4, wherein ~~[[the]]~~ said encoding further includes indicating a set of one or more policy actions for the single resource, the set of policy actions corresponding to the one or more resource management ~~policy~~ policies.

6. (Currently amended) The computer-readable storage medium of claim 5, wherein the program instructions are further executable to implement a policy imposing isolate installing the set of policy actions in the first resource domain structure.

7. (Currently amended) The computer-readable storage medium of claim 5, wherein the first resource domain structure also indicates a set of one or more triggers for the single resource, wherein the ~~set of~~ one or more triggers correspond to respective ~~[[ones]]~~ actions of the set of policy actions.

8. (Currently amended) The computer-readable storage medium of claim 4, wherein the first resource domain structure also indicates that a reservation on the single resource has been established.

9. (Currently amended) The computer-readable storage medium of claim 4, wherein said binding the one or more encapsulated computations to ~~[[the]]~~ a single one of the first and second encodings comprises indicating in a registry each of the encapsulated computations and the single encoding.

10. (Currently amended) The computer-readable storage medium of claim 5, wherein the program instructions are further executable to implement a dispenser retrieving the set of policy actions from the first resource domain structure and executing one or more of the policy actions to handle a resource request for the single resource, wherein the dispenser is an isolate that handles requests for the single resource.

11. (Currently amended) The computer-readable storage medium of claim 1, wherein said binding the one or more encapsulated computations to [[the]] a single one of the first and second encodings comprises indicating to each of the encapsulated computations the single encoding.

12. (Currently amended) The computer-readable storage medium of claim 1, wherein the single computer resource ~~includes~~ comprises a physical computer resource or a [[and]] logical computer resource~~[[s]]~~.

13. (Currently amended) A computer-implemented method, comprising:

encoding [[an]] a first association [[of]] between a single computer resource ~~with~~
a and one or more resource management ~~policy~~ policies for the single
computer resource;

encoding a second association between the single computer resource and one or more resource management policies for the single computer resource, wherein at least one of the one or more resource management policies associated with the single resource by the second encoding is different from the one or more policies associated with the single resource by the first encoding;

binding one or more isolates that are consumers of the single resource to [[the]] a single one of the first and second encodings, wherein each isolate~~[[s]]~~

includes ~~encapsulated~~ one or more encapsulated computations ~~[[with]]~~ that do not share state with independent of other computations; and

executing the one or more isolates in accordance with the one or more resource management ~~policy~~ policies for the single computer resource that are associated with the single computer resource by the single encoding that is bound to the one or more isolates.

14. (Currently amended) The method of claim 13, wherein the encoding of the first association indicates the single computer resource.

15. (Currently amended) The method of claim 14, wherein the encoding of the first association further indicates a set of one or more policy actions corresponding to the one or more resource management ~~policy~~ policies, wherein execution of the set of policy actions causes a policy decision to be generated for the single computer resource.

16. (Currently amended) The method of claim 14, further comprising a dispenser isolate retrieving the set of policy actions from the encoding of the first association and executing one or more of the set of policy actions to invoke a policy imposing isolate.

17. (Currently amended) The method of claim 14, wherein the encoding of the first association also indicates availability of the single computer resource.

18. (Currently amended) The method of claim 14, wherein the encoding of the first association also indicates that a reservation on the single computer resource has been established.

19. (Currently amended) The method of claim 14, wherein each of the one or more resource management ~~policy~~ policies associated with the single computer resource by the encoding of the first association is defined by a policy imposing isolate that installs the resource management policy in the encoding of the first association.

20. (Original) The method of claim 19, wherein the bound isolates include the policy imposing isolate.

21. (Currently amended) The method of claim 13, further comprising indicating the encoding of the first association in a registry of resource management policy-computer resource association encodings.

22. (Currently amended) The method of claim 13, further comprising characterizing the single computer resource with generic attributes, and wherein the generic attributes comprise disposable, revocable, reservable, and bounded.

23. (Currently amended) The method of claim 13, wherein the one or more isolates correspond to a collaborative application.

24. (Currently amended) A machine-readable storage medium storing two or more encodings of a data structure, each encoding of ~~encoded on one or more machine-readable storage media, the data structure comprising:~~

a first data field configured to store data indicating ~~indicate~~ a same single computer resource;

a second data field configured to store data indicating ~~indicate~~ a one or more resource management policy policies for the single computer resource, wherein data stored in the second data field of one of the two or more encodings indicates at least one resource management policy for the single computer resource that is different from the one or more resource management policies for the single computer resource indicated by the data stored in the second data field of another one of the two or more encodings; and

a third data field configured to store data indicating ~~indicate~~ availability of the single computer resource;

wherein the data stored in the first, second, and third data fields of the two or more encodings is accessible by a computer for managing the single computer resource.

25. (Currently amended) The ~~data-structure~~ storage medium of claim 24, wherein each encoding of the data structure further comprising ~~comprising~~ comprises a fourth data field configured to store data indicating ~~indicate~~ an identifier to identify an association between ~~[[a]]~~ the single computer resource indicated in the first data field and a resource management policy indicated in the second field.

26. (Currently amended) The ~~data-structure~~ storage medium of claim 24, wherein each encoding of the data structure further comprising ~~comprising~~ comprises a fourth data field configured to store data indicating ~~indicate~~ usage of the single computer resource ~~usage~~ by a set of one or more encapsulated computations bound to the data structure.

27. (Currently amended) The ~~data-structure~~ storage medium of claim 24, wherein the first data field is further configured to store data indicating ~~indicates~~ attributes of ~~[[a]]~~ the single computer resource.

28. (Currently amended) The ~~data-structure~~ storage medium of claim 27, wherein the attributes of the single computer resource comprise: disposable, revocable, reservable, and bounded.

29. (Currently amended) The ~~data-structure~~ storage medium of claim 24, wherein each encoding of the data structure further comprising ~~comprising~~ comprises a fourth data field configured to store data indicating ~~indicate~~ that a reservation of the single computer resource has been established.

30. (Currently amended) A computer-readable storage medium storing program instructions computer-executable to perform operations comprising:

preventing binding of ~~two or more~~ an encapsulated computation[[s]] that is a consumer of one or more computer resources ~~[[with]]~~ to two or more resource domain structures that indicate the same computer resource, wherein each of the resource domain structures represents an association between ~~[[a]]~~ the computer resource and ~~[[a]]~~ one or more resource management ~~policy~~ policies, and wherein at least one of the one or more resource management policies associated with the computer resource by a first one of the resource domain structures is different from the one or more policies associated with the computer resource by a second one of the resource domain structures;

allowing binding of ~~two or more~~ an encapsulated computation[[s]] that is a consumer of one or more computer resources to two or more resource domain structures that indicate different computer resources; and

executing the ~~two or more~~ bound encapsulated computation[[s]] in accordance with the one or more resource management ~~policy~~ policies associated with the computer resource by the resource domain structure bound to the encapsulated computation.

31. (Currently amended) The computer-readable storage medium of claim 30, wherein each of the resource domain structures ~~identify their~~ identifies its resource domain and indicates a respective computer resource[[s]] and one or more associated resource management policies.

32. (Currently amended) The computer-readable storage medium of claim 31, wherein each of the resource domain structures indicates generic attributes of ~~their~~ the

respective computer resource, wherein the generic attributes comprise one or more of that
at least include disposable, revocable, reservable, and bounded.

33. (Currently amended) The computer-readable storage medium of claim 31, wherein each of the resource domain structures indicates usage of ~~their~~ the respective computer resource.

34. (Currently amended) The computer-readable storage medium of claim 31, wherein each of the resource domain structures indicates whether a reservation[[s]] has been established on their corresponding the respective computer resource.

35. (Currently amended) A computer-readable storage medium comprising program instructions computer-executable to implement:

instantiating [[an]] two or more instances of a resource domain according to a resource domain class definition, wherein the resource domain class definition provides for associating a single computer resource with [[a]] one or more resource management ~~policy~~ policies and for binding ~~a set of~~ one or more isolates to the instance, and wherein each of the two or more resource domain instances associates a same computer resource with a different set of one or more resource management policies for the same computer resource;

binding a set of one or more isolates to one of the two or more resource domain instances, ~~and~~ wherein each of the isolates includes a set of one or more encapsulated computations [[with]] that do not share state ~~independent of~~ with other isolates; and

executing the set of one or more bound isolates in accordance with the one or more resource management ~~policy~~ policies associated with the same

computer resource by the one of the two or more resource domain instances that is bound to the set of one or more isolates.

36. (Previously presented) The computer-readable storage medium of claim 35, wherein the resource domain class definition provides a routine for determining current usage corresponding to an instance of the resource domain class.

37. (Previously presented) The computer-readable storage medium of claim 35, wherein the program instructions are further executable to implement one or more routines for unconsuming computer resources.

38. (Currently amended) The computer-readable storage medium of claim 35, wherein the program instructions are further executable to implement one or more routines for attempting to consume a given amount of a computer resource, with the possibility of success or failure.

39. (Currently amended) The computer-readable storage medium of claim 35, wherein the program instructions are further executable to implement one or more routines for indicating computations bound to each of the two or more resource domain class instances.

40. (Currently amended) The computer-readable storage medium of claim 35, wherein the program instructions are further executable to implement regulating association of computations with instances of the resource domain class, ~~wherein each instance of the resource domain class indicates different resource.~~

41. (Currently amended) The computer-readable storage medium of claim 35, wherein the program instructions are further executable to implement associating resource domain class instances with dispensers that handle resource requests separately from implementation of the single computer resource indicated in each resource domain class instance.

42. (Currently amended) An apparatus, comprising:

a memory;

means for representing ~~[[an]]~~ a first association between a single computer resource and ~~[[a]]~~ one or more resource management ~~policy~~ policies for the single computer resource;

means for representing a second association between the single computer resource and one or more resource management policies for the single computer resource, wherein at least one of the one or more resource management policies associated with the single computer resource by the second representation is different from the one or more policies associated with the single resource by the first representation;

means ~~and~~ for binding one or more isolates that are consumers of the single computer resource ~~[[with]]~~ to a single one of the first and second representations of the association of the single computer resource and the one or more resource management ~~policy~~ policies, wherein an isolate includes a set of one or more computations ~~with a~~ that do not share state independent of with other computations; and

means for executing the one or more isolates in accordance with the one or more resource management ~~policy~~ policies for the single computer resource that are associated with the single computer resource by the single representation that is bound to the one or more isolates.

43. (Currently amended) The apparatus of claim 42, wherein the one or more resource management ~~policy~~ policies comprise~~[[s]]~~ one or more policy actions that provide policy decisions to computer resource requests.

44. (Currently amended) The apparatus of claim 43, wherein the one or more resource management ~~policy~~ policies further comprise[[s]] triggers that gate execution of policy actions.

45. (Currently amended) The apparatus of claim 42, further comprising means for indicating usage of the single computer resource.